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## IN THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1. (Currently amended) A heat exchanger comprising:

a core [[(4)]] in the aggregate of a multiplicity of juxtaposed flat tubes [[(3)]], with a heating fluid [[(1)]] flowing through one of the inside and the outside of the flat tubes [[(3)]], with a fluid to be heated [[(2)]] flowing through the other;

a pair of discoidal tube plates [[(5)]] including tube insertion apertures to which the flat tubes [[(3)]] are jointed joined at their respective opposed ends;

an inner cylinder [[(6)]] having a rectangular cross-section enclosing the outer periphery of the core [[(4)]] except the vicinities of the pair of tube plates [[(5)]];

a first baffle plate [[(7)]] having a circular periphery fitted to the outer periphery at one end of the inner cylinder [[(6)]], the first baffle plate [[(7)]] confronting one of the pair of tube plates [[(5)]];

a circular outer cylinder [[(10)]] having one end joined to the first baffle plate [[(7)]] and the other end joined to a second baffle plate [[(8)]] with a

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circular periphery disposed on the outer periphery at the other end of the inner cylinder [[(6)]] or to the other of the pair of tube plates [[(5)]], the outer cylinder [[(10)]] including on its outer periphery a corrugated portion that is thermally expandable in the axial direction; and

an outlet [[(11)]] and an inlet [[(12)]] for the fluid to be heated [[(2)]] or the heating fluid [[(1)]] disposed at the both end portions of the core [[(4)]] between the opposed ends of the inner cylinder [[(6)]] and the pair of tube plates [[(5)]], wherein

a lead-in port [[(13]] and a lead-out port [[(14)]] for the heating fluid [[(1)]] or the fluid to be heated [[(2)]] are connected respectively to the pair of tube plates [[(5)]].

2. (Currently amended) The heat exchanger of claim 1, wherein the second baffle plate [[(8)]] having the circular outer periphery is fitted at its rectangular inner periphery to the outer periphery at the other end of the inner cylinder [[(6)]] in such a manner as to be slightly displaceable in the axial direction of the inner cylinder [[(6)]] confronting the other of the pair of tube plates [[(5)]], wherein

the outer cylinder [[(10)]] is firmly connected at the other end thereof to the outer periphery of the second baffle plate [[(8)]], wherein

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the first baffle plate [[(7)]] is fitted at its rectangular inner periphery to the outer periphery at one end of the inner cylinder [[(6)]] with the first baffle plate [[(7)]] being secured to the outer cylinder [[10)], and wherein

the heat exchanger further comprises a first [[(15)]] and a second [[(16)]] cylindrical tank bodies whose opposed ends are firmly connected respectively to the tube plates [[(5)]] and to the first [[(7)]] and the second [[(8)]] baffle plates confronting the tube plates [[(5)]].